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| ☐ | L21 | l18 and L20 | 11540 |
| ☐ | L20 | (700/245,247,248,251,257,258,259,260,261,262,264 or 318/568.11,568.12,568.13,568.26,568.21,568.25 or 606/1,102,130,139 or 600/117,118,407,126,429,587,595 or 901/1,2,27).ccls. | 14418 |
| ☐ | L19 | L18 and l5 | 1 |
| ☐ | L18 | (robot$6 or articulat$3 or automat$6 or autonomous$2 or CNC or machine$2 or mechanical device or mechan$6 or servomechan$4) | 7486194 |
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| ☐ | L17 | l15 and L16 | 0 |
| ☐ | L16 | (backward or reverse or reciprocating) motion$ | 67394 |
| ☐ | L15 | (5572103 \| 4595989 \| 4967127 \| 6438437 \| 4506448 \| 4897586 \| 5724489 \| 5555347 \| 5020001 \| 5243266 \| 5987591 \| 6097169 \| 5313563 \| 5467003 \| 5489758 \| 5582750 \| 5608618 \| 5715388 \| 5773950 \| 6192288 \| 5371836 \| 4433382 \| 4777608 \| 5006999 \| 5495090 \| 6157873 \| 6167328 \| 4403281 \| 4817017 \| 4831316 \| 4853603 \| 4970370 \| 5015821 \| 5276777 \| 5300868 \| 5327057 \| 5412759 \| 5457773 \| 5479078 \| 5671962 \| 5761390 \| 6021361 \| 6019606 \| 6069338 \| 6140788 \| 5239159 \| 4871252 \| 4362977 \| 4348623 \| 4475160).pn. | 102 |
| ☐ | L14 | ('6452131' \|'5961858' \|'5925268')!.PN. | 7 |
| ☐ | L13 | teaching pendant and servo and controllers and laser and sensor and computer and robot | 5 |
| ☐ | L12 | teaching console and controllers and laser and sensor and computer and robot | 1 |
| ☐ | L11 | teaching console and servo and controllers and laser and sensor and computer and robot | 1 |
| | | *DB=PGPB,USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ* | |
| ☐ | L10 | teaching console and servo and controllers and laser and sensor and computer and robot | 1 |
| ☐ | L9 | teaching console and "servo controllers" and laser | 1 |
| ☐ | L8 | teaching console and "servo controller #n" and laser | 0 |
| ☐ | L7 | servomotors and M1 same M6 and pendant | 2 |
| ☐ | L6 | servomotors and M1 same Mn and pendant | 1 |
| ☐ | L5 | servomotors and M1 and Mn and pendant | 1 |
| ☐ | L4 | servomotors and "M1 to Mn" and pendant | 0 |
| ☐ | L3 | sevomotors and M1 and Mn and pendant | 0 |
| ☐ | L2 | sevomotors and "m1 to mn" | 0 |
| ☐ | L1 | sevomotors and "M1 to Mn" | 0 |

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1. **Control of a mobile robot with passive multiple trailers**
Myoungkuk Park; Woojin Chung; Munsang Kim; Jaebok Song;
Robotics and Automation, 2004. Proceedings. ICRA '04. 2004 IEEE International Conference on
Volume 5,  26 April-1 May 2004 Page(s):4369 - 4374 Vol.5
**IEEE CNF**

2. **Ver-vite: dynamic and experimental analysis for inchwormlike biomimetic robots**
Rincon, D.M.; Sotelo, J.;
Robotics & Automation Magazine, IEEE
Volume 10,  Issue 4,  Dec. 2003 Page(s):53 - 57
**IEEE JNL**

3. **A practical path and motion planner for a tractor-trailer robot**
Viale, M.; Tsubochi, T.; Yuta, S.;
Intelligent Robots and Systems, 1997. IROS '97., Proceedings of the 1997 IEEE/RSJ International Conference on
Volume 2,  7-11 Sept. 1997 Page(s):989 - 996 vol.2
**IEEE CNF**

4. **Towards efficient implementation of quadruped gaits with duty factor of 0.75**
Hugel, V.; Blazevic, P.;
Robotics and Automation, 1999. Proceedings. 1999 IEEE International Conference on
Volume 3,  10-15 May 1999 Page(s):2360 - 2365 vol.3
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5. **Discontinuous control for exponential stabilization of wheeled mobile robots**
Tayebi, A.; Rachid, A.;
Intelligent Robots and Systems '96, IROS 96, Proceedings of the 1996 IEEE/RSJ International Conference on
Volume 1,  4-8 Nov. 1996 Page(s):60 - 65 vol.1
**IEEE CNF**

6. **Experimental Research of a Passive Multiple Trailer System for Backward Motion Control**
Myoungkuk Park; Woojin Chung; Munsang Kim;
Robotics and Automation, 2005. ICRA 2005. Proceedings of the 2005 IEEE International Conference on
18-22 April 2005 Page(s):105 - 110
**IEEE CNF**

7. **Analysis of part motion on a longitudinally vibrating plate**
Reznik, D.; Canny, J.; Goldberg, K.;
Intelligent Robots and Systems, 1997. IROS '97., Proceedings of the 1997 IEEE/RSJ International Conference on
Volume 1,  7-11 Sept. 1997 Page(s):421 - 427 vol.1
**IEEE CNF**

8. **Path-tracking of a tractor-trailer vehicle along rectilinear and circular paths: a Lyapunov-based approach**
Astolfi, A.; Bolzern, P.; Locatelli, A.;
Robotics and Automation, IEEE Transactions on
Volume 20, Issue 1, Feb. 2004 Page(s):154 - 160
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1. **Miniature robot with micro capillary capturing probe**
   Aoyama, H.; Hiraiwa, S.; Iwata, F.; Fukaya, J.; Sasaki, A.;
   Micro Machine and Human Science, 1995. MHS '95., Proceedings of the Sixth International Symposium on
   4-6 Oct. 1995 Page(s):173 - 178
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axes for ...
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IEEE Micro **Robots** and Teleoperators Workshop, Hyannis, ... Repeated
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> <u>Control apparatus for electric actuator - Patent 7042187</u>
> In general, when an industrial **robot** of the installation type is used, **...** 14
> makes **reciprocating motion linearly** when driven by a rotary driving
> source 12, ...
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<u>motion actuator rod on GlobalSpec</u>
**Robot** Automation, Linear Actuators, Motion Controllers & Software . **...**
**reciprocating motion actuator, reciprocating** to rotary motion, rotary
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plot of the desired and actual **robot** mo-. tion during. a 20. second

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